Applicants: Serial No.:

Björck et 08/325,278

Filed:

April 28, 1993 Amendment and Response

Page 2 of 8

## **AMENDMENTS**

## Please amend the claim set to read as follows:

## 1 - 13 (withdrawn)

- (currently amended) An isolated protein having the ability to bind to the light 14. chains of immunoglobulins, wherein said protein is selected from the group consisting of:
  - (a) a protein consisting essentially of the amino acid sequence of SEQ ID NO: 1;
  - (b) a protein consisting essentially of the amino acid sequence of at least one of the domains B1, B2, B3 or B4 of (a) wherein,
    - domain B1 is comprised of from amino acid 5 to amino acid 80 (i) of SEQ ID NO: 1;
    - domain B2 is comprised of from amino acid 81 to amino acid (ii) 152 of SEQ ID NO: 1;
    - domain B3 is comprised of from amino acid 153 to amino acid (iii) 224 of SEQ ID NO: 1;
    - domain B4 is comprised of from amino acid 225 to amino acid (iv) 296 of SEQ ID NO: 1; and
  - (c) a protein consisting essentially of the sequence of multiple[s] domains selected from one or more of [or mixtures of] the domains [of] B1, B2, B3 and [or] B4 of (b).
- 15. (currently amended) An isolated hybrid protein consisting essentially of one or more of the B1-B4 domains according to claim 14 which bind to the light chains in immunoglobulins of all classes, and domains which bind to heavy chains of immunoglobulin G.

Applicants: Serial No.:

Björck et a 08/325,278 April 28, 1993

Filed: April 28, Amendment and Response

Page 3 of 8

- 16. (pending) A hybrid protein according to claim 15, wherein the domains which bind to heavy chains of immunoglobulin G are chosen from among:
  - the C1- and C2- domains in protein G, wherein domain C1 is comprised of from amino acid 303 to amino acid 357 of protein G and domain C2 is comprised of from amino acid 373 to amino acid 427 of protein G;
  - (ii) the A-, B- and C1- domains in protein H wherein domain A is comprised of from amino acid 42 to amino acid 121 of protein H, domain B is comprised of from amino acid 122 to amino acid 158 of protein H, and domain C1 is comprised of from amino acid 159 to amino acid 200 of protein H;
  - (iii) the A-, B1-, B2- and S domains in protein M1, wherein domain A is comprised of from amino acid 1 to amino acid 91 of protein M1, domain B1- is comprised of from amino acid 92 to amino acid 119 of protein M1, domain B2- is comprised of from amino acid 120 to amino acid 147 of protein M1, and domain S is comprised of from amino acid 154 to amino acid 190 of protein M1; or
  - (iv) the E-, D-, A-, B- and C- domains in protein A, wherein domain E- is comprised of from amino acid 37 to amino acid 92 of protein A, domain D- is comprised of from amino acid 93 to amino acid 153 of protein A, domain A- is comprised of from amino acid 154 to amino acid 211 of protein A, domain B- is comprised of from amino acid 212 to amino acid 269 of protein A, and domain C- is comprised of from amino acid 270 to amino acid 327 of protein A.



Applicants: Serial No.:

Filed:

Bjö. *et al.* 08/325,278 April 28, 1993

Amendment and Response

Page 4 of 8

- 17. (pending) A hybrid protein according to claim 16, wherein the hybrid protein has the amino acid sequence of SEQ ID NO: 3.
- 18. (pending) A reagent kit for binding, separating and identifying immunoglobulins, comprising a protein according to any one of claims 14,15, 16 or 17, and a detection reagent.
- 19. (pending) A composition, comprising a protein according to any one of claims 14, 15, 16 or 17 in combination with an additive or carrier.
- 20. (withdrawn)
- 21. (currently amended) An <u>isolated</u> hybrid protein consisting essentially of the amino acid sequence of SEQ ID NO: 3.